Topoisomerase I, Mitochondrial (TOP1MT) Antibody

Mouse Monoclonal Antibody [Clone TOP1MT/488]

Catalog No	Format	Size
116447-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
116447-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
116447-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

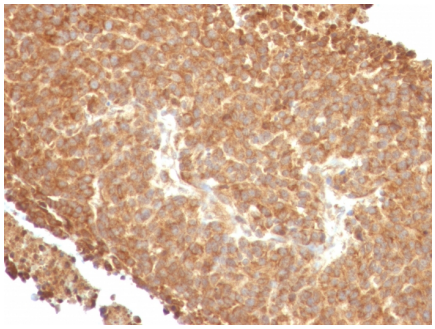
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	TOP1MT/488
Gene Name	TOP1MT
Immunogen	Recombinant full-length human TOP1MT protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	70kDa
Cellular Localization	Mitochondrion
Species Reactivity	Human
Positive Control	brain or fetal liver tissue., MCF-7 or A431 cells. Jurkat cell lysate. Human heart, Skeletal muscle

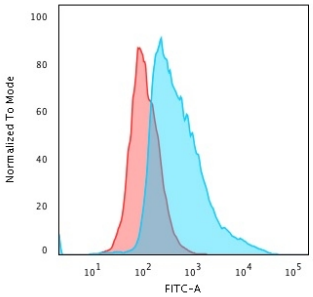
**Optimal dilution for a specific application should be determined.*

Product Images for Topoisomerase I, Mitochondrial (TOP1MT) Antibody

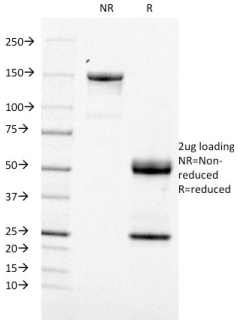


Formalin-fixed, paraffin-embedded human melanoma stained with Topo I, MT Mouse Monoclonal Antibody (TOP1MT/488).

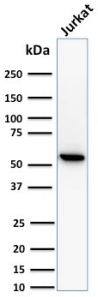
Immunofluorescent analysis of PFA-fixed MCF-7 cells. Topo I, MT Mouse Monoclonal Antibody (TOP1MT/488) followed by goat anti-mouse IgG-CF488 (green); nuclear counterstain (RedDot).



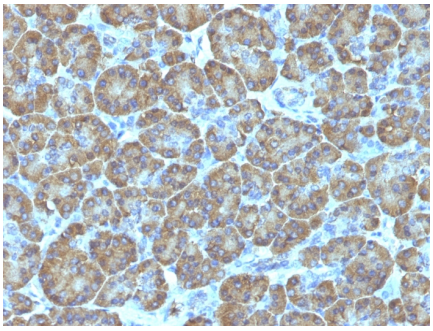
Flow Cytometric Analysis of PFA-fixed MCF-7 cells. Topo I, MT Mouse Monoclonal Antibody (TOP1MT/488) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



SDS-PAGE Analysis Purified Topo I, MT Mouse Monoclonal Antibody (TOP1MT/488). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Jurkat cell lysate using Topo I, MT Mouse Monoclonal Antibody (TOP1MT/488).



Formalin-fixed, paraffin-embedded human pancreas stained with Topo I, MT Mouse Monoclonal Antibody (TOP1MT/488).

Specificity & Comments

DNA topoisomerases are nuclear enzymes that regulate the topological structure of DNA in eukaryotic cells by transiently breaking and rejoining DNA strands. Due to their roles in DNA replication, recombination, and transcription, DNA topoisomerases have been identified as targets of numerous anticancer drugs. Mitochondrial Topo I (DNA topoisomerase I, mitochondrial) is a 601 amino acid protein that primarily acts to relieve DNA strain that may occur during duplication of mitochondrial DNA. As a type IB topoisomerase, mitochondrial Topo I requires a divalent metal, either, calcium or magnesium, as well as an alkaline pH for optimal activity.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Mitochondria Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.